






Axial Lead & Cartridge Fuses

5×20 mm > Time-Lag > 477 Series

Electrical Characteristic

Amp Code	Amp Rating	Max Voltage Rating (V)		Interrupting Rating	Nominal Cold Resistance (Milli-ohms)	Nominal Melting I^2t (A ² sec.) [†]	Agency Approvals				
		AC	DC								
.500	0.5	500	400	100A@500VAC 1500A@400VDC	1055.900	0.300		X*	X**		
.800	0.8	500	400		430.000	0.909		X*	X**		
001.	1	500	400		139.400	1.800	X	X*	X**		X
002.	2	500	400		55.200	9.120	X	X*	X**		
3.15	3.15	500	400		27.700	50.109	X	X*	X**		X
004.	4	500	400	100A@500VAC 500A@400VDC	17.200	52.480	X	X*	X**		
005.	5	500	400		13.700	76.500	X	X*	X**		
06.3	6.3	500	400		10.970	121.451	X	X	X**		
008.	8	500	400		8.305	203.520	X	X	X**		
010.	10	500	400		4.950	509.000	X	X		X	
012.	12	500	400		4.730	576.000	X	X		X	
016.	16	500	400	100A@500VAC 400A@400VDC	3.100	1331.200	X	X		X***	

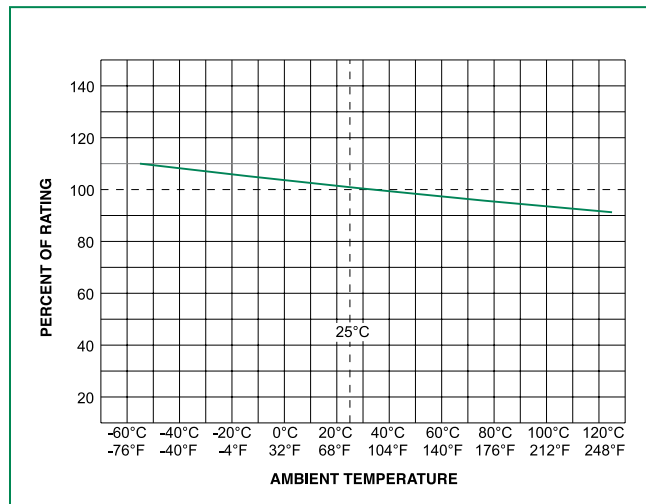
*100A @ 600Vac also available. Add suffix "MXE6P". Example: 0477004.MXE6P.

**Semko approval for 100A@500Vac and 200A@400Vdc.

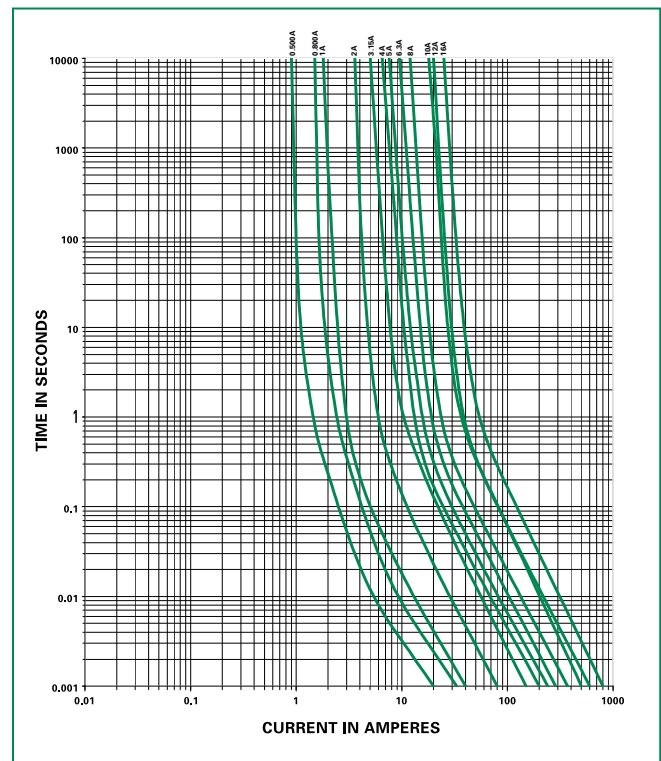
***100A@ 500Vac and 300A@400Vdc for 16A

[†] I^2t test at 10x rated current.

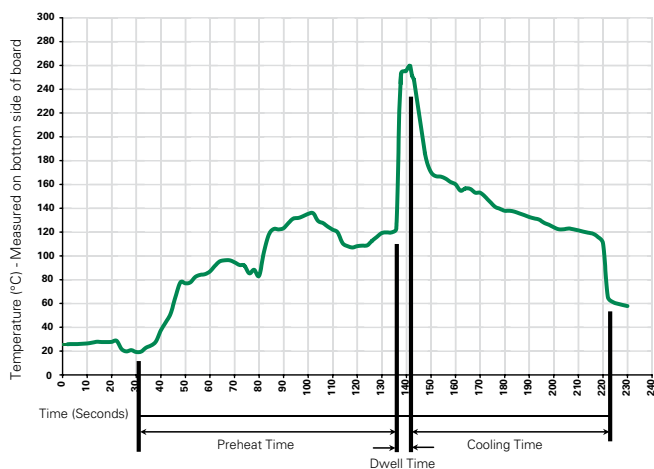
Temperature Re-rating Curve



Average Time Current Curves



Soldering Parameters - Wave Soldering



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100°C
Temperature Maximum:	150°C
Preheat Time:	60-180 seconds
Solder Pot Temperature:	260°C Maximum
Solder Dwell Time:	2-5 seconds

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C
Heating Time: 5 seconds max.

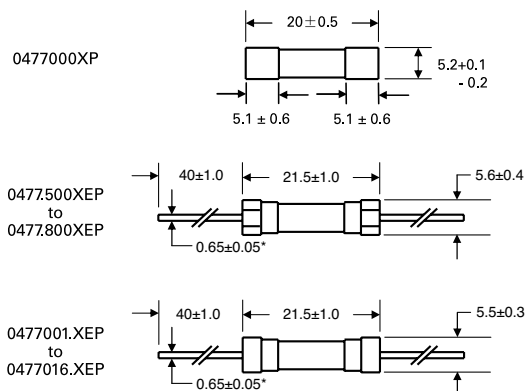
Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

Materials	Body: Ceramic Cap: Nickel-plated Brass Leads: Tin-plated Copper
Terminal Strength	MIL-STD-202, Method 211, Test Condition A
Solderability	MIL-STD-202 Method 208
Product Marking	Cap 1: Brand logo, current and voltage ratings Cap 2: Series and agency approval markings
Packaging	Available in Bulk (M=1000 pcs/pkg)

Operating Temperature	-55°C to +125°C
Thermal Shock	MIL-STD-202, Method 107, Test Condition B (5 cycles, -65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A (High RH (95%) and elevated temp (40°C) for 240 hours)
Salt Spray	MIL-STD-202, Method 101, Test Condition B

Dimensions



Notes:
* Ratings above 5A 1.0±0.05 diameter lead.

All dimensions in mm

Part Numbering System

0477 xxxx M X E P

Series ————

Amp Code ————
Refer to Amp Code column of Electrical Characteristics Table

Quantity Code ————
M = 1000

Packaging Code ————
X = Filler

Option Codes ————
E : Axial Lead
Others : special options.
Please call Littelfuse for detail.

Lead-Free ————

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Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
477 Series				
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXE	N/A
Reel and Tape	N/A	1000	MRET1	T1=53mm (2.087")

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